

Table 263. Energy Consumption Estimates by Source, Selected Years 1960-1997, South Dakota

Year	Coal ^a Thousand Short Tons	Natural Gas ^b Billion Cubic Feet	Petroleum											Nuclear Electric Power	Hydro-electric Power ^d	Biomass ^e	Other ^{a,f}	Net Inter-state Flow of Electricity/Losses ^g	Total ^h	
			Asphalt & Road Oil ^a	Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	Kero-sene ^a	LPG ^a	Lubri-cants ^a	Motor Gasoline	Residual Fuel ^a	Other ^{a,c}	Total					Million kWh		Million kWh
			Thousand Barrels															Million kWh		Million kWh
1960	374	25	724	106	2,941	1,145	975	1,370	193	8,561	102	0	16,118	0	1,156	-	-	-979	-	
1965	310	27	588	128	3,766	1,111	563	1,541	158	8,955	71	0	16,881	0	3,872	-	-	-7,049	-	
1970	338	36	894	99	4,375	1,173	16	2,712	166	9,903	328	0	19,666	0	6,579	-	-	-13,856	-	
1975	1,888	33	862	77	3,841	1,056	5	2,930	160	10,636	218	0	19,784	0	7,927	-	-	-18,221	-	
1980	2,827	24	638	97	4,801	1,311	15	2,530	160	9,688	122	0	19,362	0	5,818	-	-	-10,269	-	
1985	2,703	25	841	87	5,003	1,019	41	1,241	145	9,279	36	0	17,693	0	5,333	-	-	-5,993	-	
1986	2,281	23	815	85	6,060	516	36	1,567	142	9,004	60	0	18,284	0	5,736	-	-	-6,017	-	
1987	1,101	21	674	80	5,915	669	19	2,358	161	9,016	55	0	18,947	0	5,386	-	-	-728	-	
1988	2,591	24	878	89	6,227	875	19	1,579	155	9,175	85	0	19,081	0	5,286	-	-	-4,607	-	
1989	2,541	26	776	88	5,439	1,024	14	3,623	159	9,126	66	0	20,315	0	NA	-	-	R -1,732	-	
1990	2,571	25	790	93	5,525	1,097	8	3,691	163	8,986	61	0	20,414	0	NA	-	-	R -311	-	
1991	2,863	26	768	61	5,860	367	7	1,794	146	9,119	67	18	18,209	0	NA	-	-	R -83	-	
1992	2,670	27	887	62	5,595	1,272	8	1,930	149	9,345	144	19	19,412	0	NA	-	-	R -3	-	
1993	2,696	31	644	53	6,222	1,190	7	2,591	152	9,565	117	21	20,562	0	NA	-	-	5,177	-	
1994	3,036	31	629	48	6,994	1,305	5	2,298	159	9,839	89	21	21,386	0	NA	-	-	R -3,675	-	
1995	2,537	34	821	46	6,662	1,463	6	2,294	156	10,007	14	21	21,490	0	NA	-	-	R -4,395	-	
1996	1,852	37	1,136	53	6,694	1,014	9	2,645	151	10,148	41	25	21,916	0	NA	-	-	R -8,293	-	
1997	2,442	35	1,354	48	6,416	697	9	2,672	160	10,165	65	23	21,608	0	NA	-	-	-14,085	-	

Trillion Btu																			
1960	6.7	25.4	4.8	0.5	17.1	6.1	5.5	5.5	1.2	45.0	0.6	0.0	86.4	0.0	12.4	R 1.5	0.0	-3.3	R 129.1
1965	5.7	26.9	3.9	0.6	21.9	6.0	3.2	6.2	1.0	47.0	0.4	0.0	90.3	0.0	40.5	R 1.1	0.0	-24.1	R 140.3
1970	5.7	36.5	5.9	0.5	25.5	6.3	0.1	10.2	1.0	52.0	2.1	0.0	103.7	0.0	69.0	R 1.1	0.0	-47.3	R 168.7
1975	24.3	32.5	5.7	0.4	22.4	5.7	(s)	10.9	1.0	55.9	1.4	0.0	103.3	0.0	82.5	R 1.5	0.0	-62.2	R 181.9
1980	36.6	24.0	4.2	0.5	28.0	7.1	0.1	9.3	1.0	50.9	0.8	0.0	101.8	0.0	60.4	R 3.9	0.0	-35.0	R 191.6
1985	34.5	25.5	5.6	0.4	29.1	5.5	0.2	4.5	0.9	48.7	0.2	0.0	95.2	0.0	55.7	R 3.7	0.0	-20.4	R 194.2
1986	29.2	23.4	5.4	0.4	35.3	2.8	0.2	5.7	0.9	47.3	0.4	0.0	98.4	0.0	59.9	R 4.0	0.0	-20.5	R 194.4
1987	14.6	21.4	4.5	0.4	34.5	3.6	0.1	8.6	1.0	47.4	0.3	0.0	100.4	0.0	56.1	R 3.6	0.0	-2.5	R 193.6
1988	33.8	24.7	5.8	0.4	36.3	4.7	0.1	5.8	0.9	48.2	0.5	0.0	102.8	0.0	54.6	R 3.8	0.0	-15.7	R 204.0
1989	32.5	25.9	5.2	0.4	31.7	5.5	0.1	13.3	1.0	47.9	0.4	0.0	105.6	0.0	R 47.8	R 4.9	R 0.1	-5.9	R 209.7
1990	32.5	25.5	5.2	0.5	32.2	5.9	(s)	13.4	1.0	47.2	0.4	0.0	105.8	0.0	40.9	4.2	R 0.2	-1.1	R 206.6
1991	36.1	26.7	5.1	0.3	34.1	2.0	(s)	6.5	0.9	47.9	0.4	0.1	97.4	0.0	R 41.1	R 4.0	R 0.2	R -0.3	R 204.4
1992	33.6	27.0	5.9	0.3	32.6	6.9	(s)	7.0	0.9	49.1	0.9	0.1	103.7	0.0	39.6	R 4.4	R 0.2	(s)	R 208.0
1993	34.4	31.7	4.3	0.3	36.2	6.4	(s)	9.3	0.9	50.2	0.7	0.1	108.6	0.0	26.7	R 4.4	R 0.2	17.7	R 222.2
1994	39.2	31.3	4.2	0.2	40.7	7.1	(s)	8.4	1.0	51.7	0.6	0.1	113.9	0.0	55.1	R 4.9	R 0.2	-12.5	R 231.9
1995	36.7	34.8	5.4	0.2	38.8	7.9	(s)	8.3	0.9	52.6	0.1	0.1	114.5	0.0	R 62.0	R 5.1	R 0.2	-15.0	R 236.7
1996	33.2	37.4	7.5	0.3	39.0	5.7	(s)	9.6	0.9	53.3	0.3	0.1	116.7	0.0	R 82.4	R 4.7	R 0.3	-28.3	R 245.3
1997	42.4	36.1	9.0	0.2	37.4	4.0	(s)	9.7	1.0	53.4	0.4	0.1	115.2	0.0	92.9	4.4	0.3	-48.1	241.9

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.

^e "Biomass" is wood, waste, and ethanol. Ethanol blended into motor gasoline is included in motor gasoline and total petroleum. It is also included in the biomass series to give complete biomass data, but it is counted only once in the energy total.

^f "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^g Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number

indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

^h From 1989, "Total" does not equal the sum of the columns. Ethanol (which is shown in the transportation sector table) is included in both motor gasoline and biomass data in this table but only once in the total. Net imports of electricity generated from nonrenewable energy sources (shown in appendix Table A8) is included in the total in this table but not in any other columns.

ⁱ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

kWh=kilowatt-hours. R=Revised data. - =Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 264. Residential Energy Consumption Estimates, Selected Years 1960-1997, South Dakota

Year	Coal			Natural Gas ^b	Petroleum				Wood	Geothermal	Solar ^c	Electricity ^a	Net Energy	Electrical System Energy Losses ^d	Total
	Bituminous Coal and Lignite ^a	Anthracite ^a	Total		Distillate Fuel ^a	Kerosene ^a	LPG ^a	Total						Million Kilowatthours	
	Thousand Short Tons				Billion Cubic Feet	Thousand Barrels						Thousand Cords	Million Kilowatthours	Net Energy	
1960	43	0	43	8	567	903	1,067	2,537	R 61	-	-	847	-	2,107	-
1965	24	0	24	10	677	524	1,198	2,398	R 42	-	-	1,183	-	2,824	-
1970	11	0	11	14	763	14	2,010	2,787	R 33	-	-	1,586	-	3,843	-
1975	8	0	8	12	574	3	1,994	2,571	R 35	-	-	2,068	-	4,987	-
1980	6	0	6	11	762	10	1,165	1,937	R 153	-	-	2,623	-	6,378	-
1985	6	0	6	11	743	35	703	1,481	R 143	-	-	2,769	-	6,505	-
1986	8	0	8	11	1,040	23	841	1,905	R 140	-	-	2,754	-	6,336	-
1987	1	0	1	9	856	15	1,299	2,170	R 123	-	-	2,680	-	6,125	-
1988	1	0	1	11	920	14	945	1,878	R 128	-	-	2,913	-	6,586	-
1989	1	(s)	1	11	900	9	1,420	2,329	R 133	-	-	2,923	-	R 6,567	-
1990	1	0	1	10	805	4	1,731	2,540	89	-	-	2,866	-	6,269	-
1991	1	(s)	1	11	804	4	1,061	1,869	94	-	-	3,040	-	R 6,617	-
1992	(s)	(s)	(s)	11	474	4	1,006	1,484	R 99	-	-	2,843	-	R 6,072	-
1993	(s)	0	(s)	12	592	6	1,355	1,952	R 82	-	-	3,109	-	6,569	-
1994	5	(s)	5	12	536	4	1,278	1,818	81	-	-	3,147	-	R 6,567	-
1995	2	0	2	13	542	4	1,384	1,929	90	-	-	3,268	-	R 6,809	-
1996	1	0	1	14	632	5	1,646	2,283	90	-	-	3,426	-	7,131	-
1997	(s)	0	(s)	13	490	6	1,646	2,143	65	-	-	3,376	-	7,012	-

Trillion Btu

1960	0.8	0.0	0.8	7.9	3.3	5.1	4.3	12.7	R 1.2	0.0	0.0	2.9	R 25.6	7.2	R 32.8
1965	0.5	0.0	0.5	10.1	3.9	3.0	4.8	11.7	R 0.8	0.0	0.0	4.0	R 27.1	9.6	R 36.8
1970	0.2	0.0	0.2	13.8	4.4	0.1	7.6	12.1	R 0.7	0.0	0.0	5.4	R 32.2	13.1	R 45.3
1975	0.1	0.0	0.1	12.0	3.3	(s)	7.4	10.8	R 0.7	0.0	0.0	7.1	R 30.6	17.0	R 47.7
1980	0.1	0.0	0.1	10.5	4.4	0.1	4.3	8.8	R 3.1	0.0	0.0	8.9	R 31.4	21.8	R 53.2
1985	0.1	0.0	0.1	11.5	4.3	0.2	2.5	7.1	R 2.9	0.0	0.0	9.4	R 31.0	22.2	R 53.2
1986	0.2	0.0	0.2	10.6	6.1	0.1	3.1	9.3	R 2.8	0.0	0.0	9.4	R 32.2	21.6	R 53.8
1987	(s)	0.0	(s)	9.4	5.0	0.1	4.8	9.8	R 2.5	0.0	0.0	9.1	R 30.9	20.9	R 51.8
1988	(s)	0.0	(s)	10.9	5.4	0.1	3.4	8.9	R 2.6	0.0	0.0	9.9	R 32.3	22.5	R 54.8
1989	(s)	(s)	(s)	11.5	5.2	(s)	5.2	10.5	R 2.7	e (s)	R e (s)	10.0	R e 34.7	22.4	R e 57.1
1990	(s)	0.0	(s)	10.4	4.7	(s)	6.3	11.0	1.8	(s)	(s)	9.8	R 33.0	21.4	R 54.4
1991	(s)	(s)	(s)	11.4	4.7	(s)	3.8	8.5	1.9	(s)	(s)	10.4	R 32.3	22.6	R 54.9
1992	(s)	(s)	(s)	11.0	2.8	(s)	3.6	6.4	R 2.0	(s)	(s)	9.7	29.1	20.7	49.8
1993	(s)	0.0	(s)	12.6	3.4	(s)	4.9	8.4	R 1.6	(s)	(s)	10.6	R 33.3	22.4	R 55.7
1994	0.1	(s)	0.1	12.2	3.1	(s)	4.6	7.8	1.6	(s)	(s)	10.7	R 32.5	22.4	R 54.9
1995	(s)	0.0	(s)	12.8	3.2	(s)	5.0	8.2	1.8	(s)	(s)	11.2	34.0	23.2	57.2
1996	(s)	0.0	(s)	14.3	3.7	(s)	5.9	9.7	1.8	(s)	(s)	11.7	R 37.5	24.3	61.8
1997	(s)	0.0	(s)	13.4	2.9	(s)	6.0	8.8	1.3	0.1	(s)	11.5	35.2	23.9	59.1

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

- =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 265. Commercial Energy Consumption Estimates, Selected Years 1960-1997, South Dakota

Year	Coal			Natural Gas ^b	Petroleum						Wood	Geothermal	Electricity ^a	Net Energy	Electrical System Energy Losses ^c	Total ^d		
	Bituminous Coal and Lignite ^a	Anthracite ^a	Total		Distillate Fuel ^a	Kerosene ^a	LPG ^a	Motor Gasoline	Residual Fuel ^a	Total							Thousand Cords	Million Kilowatthours
	Thousand Short Tons				Billion Cubic Feet	Thousand Barrels									Thousand Cords		Million Kilowatthours	Net Energy
1960	79	0	79	7	226	0	188	37	16	466	R 1	-	409	-	1,016	-		
1965	44	0	44	9	269	0	211	46	8	534	R 1	-	645	-	1,540	-		
1970	20	0	20	11	303	0	355	50	16	724	R 1	-	937	-	2,270	-		
1975	16	0	16	11	228	0	352	58	20	658	R 1	-	995	-	2,400	-		
1980	11	0	11	9	365	0	206	65	19	655	R 4	-	1,139	-	2,770	-		
1985	11	0	11	10	278	1	124	98	19	519	NA	-	1,863	-	4,377	-		
1986	15	0	15	9	271	1	148	151	7	578	NA	-	1,603	-	3,687	-		
1987	3	0	3	8	414	1	229	130	7	781	NA	-	1,629	-	3,721	-		
1988	3	0	3	8	345	(s)	167	126	22	660	NA	-	1,760	-	3,978	-		
1989	2	(s)	2	9	220	(s)	251	118	23	612	NA	-	1,803	-	R 4,051	-		
1990	2	0	2	9	208	(s)	305	78	25	616	NA	-	1,811	-	R 3,961	-		
1991	3	(s)	3	9	192	(s)	187	54	35	468	NA	-	1,919	-	R 4,178	-		
1992	(s)	(s)	1	9	245	(s)	178	54	36	513	NA	-	1,874	-	4,003	-		
1993	1	0	1	11	248	1	239	11	1	499	7	-	1,948	-	4,116	-		
1994	10	(s)	10	10	266	(s)	226	11	6	509	R 7	-	2,265	-	4,726	-		
1995	5	0	5	11	325	1	244	11	2	584	R 7	-	2,424	-	R 5,049	-		
1996	1	0	1	12	254	1	291	11	0	556	R 7	-	2,525	-	5,256	-		
1997	1	0	1	10	278	1	291	11	9	589	6	-	2,555	-	5,307	-		
Trillion Btu																		
1960	1.5	0.0	1.5	7.5	1.3	0.0	0.8	0.2	0.1	2.4	(s)	0.0	1.4	12.8	3.5	R 16.3		
1965	0.9	0.0	0.9	8.8	1.6	0.0	0.8	0.2	(s)	2.7	(s)	0.0	2.2	R 14.6	5.3	19.8		
1970	0.4	0.0	0.4	11.4	1.8	0.0	1.3	0.3	0.1	3.5	(s)	0.0	3.2	18.5	7.7	26.2		
1975	0.3	0.0	0.3	11.5	1.3	0.0	1.3	0.3	0.1	3.1	(s)	0.0	3.4	18.2	8.2	26.4		
1980	0.2	0.0	0.2	8.5	2.1	0.0	0.8	0.3	0.1	3.3	R 0.1	0.0	3.9	R 16.0	9.5	25.4		
1985	0.2	0.0	0.2	10.1	1.6	(s)	0.4	0.5	0.1	2.7	NA	0.0	6.4	19.4	14.9	34.3		
1986	0.3	0.0	0.3	9.2	1.6	(s)	0.5	0.8	(s)	3.0	NA	0.0	5.5	18.0	12.6	30.5		
1987	(s)	0.0	(s)	8.3	2.4	(s)	0.8	0.7	(s)	4.0	NA	0.0	5.6	17.9	12.7	30.6		
1988	(s)	0.0	(s)	8.6	2.0	(s)	0.6	0.7	0.1	3.4	NA	0.0	6.0	18.0	13.6	31.6		
1989	(s)	(s)	(s)	9.0	1.3	(s)	0.9	0.6	0.1	3.0	NA	0.1	6.2	R 18.2	13.8	R 32.0		
1990	(s)	0.0	(s)	8.7	1.2	(s)	1.1	0.4	0.2	2.9	NA	0.1	6.2	R 17.9	13.5	R 31.4		
1991	(s)	(s)	(s)	9.6	1.1	(s)	0.7	0.3	0.2	2.3	NA	0.1	6.5	R 18.7	14.3	R 32.9		
1992	(s)	(s)	(s)	9.3	1.4	(s)	0.6	0.3	0.2	2.6	NA	0.1	6.4	R 18.4	13.7	R 32.0		
1993	(s)	0.0	(s)	10.8	1.4	(s)	0.9	0.1	(s)	2.4	0.1	0.2	6.6	R 20.2	14.0	R 34.2		
1994	0.2	(s)	0.2	10.4	1.5	(s)	0.8	0.1	(s)	2.5	R 0.1	0.2	7.7	R 21.1	16.1	R 37.2		
1995	0.1	0.0	0.1	10.8	1.9	(s)	0.9	0.1	(s)	2.9	R 0.1	0.2	8.3	R 22.4	17.2	R 39.6		
1996	(s)	0.0	(s)	11.8	1.5	(s)	1.0	0.1	0.0	2.6	R 0.1	0.2	8.6	R 23.4	17.9	R 41.3		
1997	(s)	0.0	(s)	10.6	1.6	(s)	1.1	0.1	0.1	2.8	0.1	0.3	8.7	22.5	18.1	40.6		

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^d Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.

- =Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 266. Industrial Energy Consumption Estimates, Selected Years 1960-1997, South Dakota

Year	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Petroleum									Hydro-electric Power ^b Million kWh	Wood and Waste	Other ^{b,d}	Electricity ^b		Electrical System Energy Losses ^e Million kWh	Total
			Asphalt and Road Oil ^b	Distillate Fuel ^b	Kero-sene ^b	LPG ^b	Lubri-cants ^b	Motor Gasoline	Residual Fuel ^b	Other ^{b,c}	Total				Million kWh	Net Energy		
			Thousand Barrels															
1960	5	5	724	1,780	72	93	19	2,615	35	0	5,339	20	-	-	258	-	642	-
1965	4	5	588	2,177	39	108	15	2,455	15	0	5,397	38	-	-	246	-	588	-
1970	5	7	894	2,332	2	298	14	2,209	35	0	5,784	35	-	-	281	-	680	-
1975	59	6	862	1,635	2	527	20	1,626	52	0	4,725	36	-	-	994	-	2,397	-
1980	127	5	638	1,640	5	1,090	4	1,473	95	0	4,943	32	-	-	1,322	-	3,215	-
1985	279	4	841	1,670	5	389	3	694	16	0	3,619	32	-	-	1,019	-	2,393	-
1986	240	3	815	2,544	11	552	3	594	52	0	4,570	32	-	-	1,316	-	3,028	-
1987	232	3	674	2,394	4	783	4	631	46	0	4,535	32	-	-	1,402	-	3,203	-
1988	199	5	878	2,666	5	448	3	544	52	0	4,597	32	-	-	1,562	-	3,531	-
1989	257	5	776	2,044	6	1,932	4	541	44	0	5,346	NA	-	-	1,612	-	R 3,623	-
1990	223	6	790	2,046	3	1,632	4	489	36	0	5,000	NA	-	-	1,657	-	3,624	-
1991	289	5	768	2,340	3	532	3	484	32	18	4,180	NA	-	-	1,726	-	R 3,758	-
1992	267	5	887	2,181	4	728	3	429	109	19	4,359	NA	-	-	1,777	-	3,796	-
1993	335	5	644	2,522	1	972	3	539	116	21	4,818	NA	-	-	1,847	-	3,903	-
1994	451	6	629	2,824	1	755	4	463	83	21	4,780	NA	-	-	1,762	-	3,677	-
1995	393	7	821	2,380	2	652	4	534	11	21	4,424	NA	-	-	1,722	-	3,587	-
1996	397	8	1,136	2,316	3	695	3	540	41	25	4,759	NA	-	-	1,785	-	R 3,714	-
1997	436	7	1,354	2,177	2	723	4	566	56	23	4,905	NA	-	-	1,841	-	3,823	-

Trillion Btu																		
1960	0.1	5.3	4.8	10.4	0.4	0.4	0.1	13.7	0.2	0.0	30.0	0.2	R 0.3	0.0	0.9	R 36.9	2.2	R 39.0
1965	0.1	4.7	3.9	12.7	0.2	0.4	0.1	12.9	0.1	0.0	30.3	0.4	R 0.3	0.0	0.8	R 36.6	2.0	R 38.6
1970	0.1	6.8	5.9	13.6	(s)	1.1	0.1	11.6	0.2	0.0	32.6	0.4	R 0.5	0.0	1.0	R 41.3	2.3	R 43.6
1975	1.1	5.8	5.7	9.5	(s)	2.0	0.1	8.5	0.3	0.0	26.2	0.4	R 0.8	0.0	3.4	R 37.7	8.2	R 45.8
1980	2.4	4.7	4.2	9.6	(s)	4.0	(s)	7.7	0.6	0.0	26.2	0.3	R 0.7	0.0	4.5	R 38.8	11.0	R 49.8
1985	4.8	3.6	5.6	9.7	(s)	1.4	(s)	3.6	0.1	0.0	20.5	0.3	R 0.9	0.0	3.5	R 33.6	8.2	R 41.8
1986	4.2	3.4	5.4	14.8	0.1	2.0	(s)	3.1	0.3	0.0	25.8	0.3	R 1.2	0.0	4.5	R 39.4	10.3	R 49.7
1987	4.0	3.4	4.5	13.9	(s)	2.9	(s)	3.3	0.3	0.0	24.9	0.3	R 1.2	0.0	4.8	R 38.7	10.9	R 49.6
1988	3.5	4.9	5.8	15.5	(s)	1.6	(s)	2.9	0.3	0.0	26.2	0.3	R 1.2	0.0	5.3	R 41.5	12.0	R 53.5
1989	4.5	5.2	5.2	11.9	(s)	7.1	(s)	2.8	0.3	0.0	27.3	R f 0.0	R f 1.0	R f (s)	5.5	R f 43.5	12.4	R f 55.9
1990	3.9	6.0	5.2	11.9	(s)	5.9	(s)	2.6	0.2	0.0	25.9	0.0	1.0	R (s)	5.7	42.5	12.4	54.8
1991	5.0	5.1	5.1	13.6	(s)	1.9	(s)	2.5	0.2	0.1	23.5	0.0	1.0	R (s)	5.9	40.6	12.8	R 53.5
1992	4.6	5.0	5.9	12.7	(s)	2.6	(s)	2.3	0.7	0.1	24.3	0.0	R 1.1	R (s)	6.1	R 41.1	13.0	R 54.1
1993	5.8	5.5	4.3	14.7	(s)	3.5	(s)	2.8	0.7	0.1	26.2	0.0	R 1.1	R (s)	6.3	R 44.9	13.3	R 58.2
1994	7.8	6.0	4.2	16.5	(s)	2.7	(s)	2.4	0.5	0.1	26.5	0.0	R 1.5	R (s)	6.0	R 47.8	12.5	R 60.3
1995	6.8	7.4	5.4	13.9	(s)	2.4	(s)	2.8	0.1	0.1	24.7	0.0	R 1.5	R (s)	5.9	R 46.3	12.2	R 58.6
1996	6.9	7.7	7.5	13.5	(s)	2.5	(s)	2.8	0.3	0.1	26.8	0.0	R 1.6	R (s)	6.1	R 49.1	12.7	R 61.8
1997	7.6	7.3	9.0	12.7	(s)	2.6	(s)	3.0	0.4	0.1	27.8	0.0	1.6	(s)	6.3	50.6	13.0	63.6

^a Includes supplemental gaseous fuels.

^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^c "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^e Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

kWh=kilowatthours. --=Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 267. Transportation Energy Consumption Estimates, Selected Years 1960-1997, South Dakota

Year	Coal ^a	Natural Gas ^b	Petroleum								Ethanol ^c	Electricity ^a	Net Energy	Electrical System Energy Losses ^d	Total ^c
			Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	LPG ^a	Lubricants ^a	Motor Gasoline	Residual Fuel ^a	Total				Million Kilowatthours	
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours	Net Energy	Million Kilowatthours	Total ^c
1960	(s)	(s)	106	362	1,145	22	174	5,909	11	7,729	0	0	-	0	-
1965	(s)	(s)	128	635	1,111	24	143	6,454	1	8,496	0	0	-	0	-
1970	(s)	(s)	99	929	1,173	50	151	7,645	6	10,052	0	0	-	0	-
1975	(s)	(s)	77	1,337	1,056	57	140	8,952	1	11,618	0	0	-	0	-
1980	0	(s)	97	1,977	1,311	69	156	8,150	0	11,760	0	0	-	0	-
1985	0	(s)	87	2,274	1,019	24	142	8,487	0	12,033	0	0	-	0	-
1986	0	(s)	85	2,166	516	25	139	8,260	0	11,191	0	0	-	0	-
1987	0	(s)	80	2,230	669	46	157	8,256	0	11,438	0	0	-	0	-
1988	0	(s)	89	2,248	875	19	151	8,506	0	11,888	0	0	-	0	-
1989	0	(s)	88	2,241	1,024	20	155	8,467	(s)	11,996	^{R e} 15,969	0	-	0	-
1990	0	(s)	93	2,434	1,097	23	160	8,419	(s)	12,226	18,443	0	-	0	-
1991	0	(s)	61	2,490	367	14	143	8,581	0	11,656	14,619	0	-	0	-
1992	0	2	62	2,676	1,272	18	146	8,863	0	13,036	17,768	0	-	0	-
1993	0	3	53	2,829	1,190	26	148	9,015	0	13,261	19,828	0	-	0	-
1994	0	3	48	3,317	1,305	39	155	9,365	0	14,229	22,527	0	-	0	-
1995	0	3	46	3,368	1,463	15	152	9,462	0	14,506	20,836	0	-	0	-
1996	0	3	53	3,459	1,014	13	148	9,596	0	14,284	14,723	0	-	0	-
1997	0	3	48	3,447	697	12	156	9,588	0	13,948	17,010	0	-	0	-

Trillion Btu															
1960	(s)	(s)	0.5	2.1	6.1	0.1	1.1	31.0	0.1	41.0	0.0	0.0	41.1	0.0	41.1
1965	(s)	(s)	0.6	3.7	6.0	0.1	0.9	33.9	(s)	45.2	0.0	0.0	45.2	0.0	45.2
1970	(s)	(s)	0.5	5.4	6.3	0.2	0.9	40.2	(s)	53.5	0.0	0.0	53.6	0.0	53.6
1975	(s)	(s)	0.4	7.8	5.7	0.2	0.8	47.0	(s)	62.0	0.0	0.0	62.0	0.0	62.0
1980	0.0	0.1	0.5	11.5	7.1	0.3	0.9	42.8	0.0	63.1	0.0	0.0	63.2	0.0	63.2
1985	0.0	0.2	0.4	13.2	5.5	0.1	0.9	44.6	0.0	64.7	0.0	0.0	65.0	0.0	65.0
1986	0.0	0.1	0.4	12.6	2.8	0.1	0.8	43.4	0.0	60.2	0.0	0.0	60.3	0.0	60.3
1987	0.0	0.1	0.4	13.0	3.6	0.2	1.0	43.4	0.0	61.5	0.0	0.0	61.6	0.0	61.6
1988	0.0	0.1	0.4	13.1	4.7	0.1	0.9	44.7	0.0	63.9	0.0	0.0	64.1	0.0	64.1
1989	0.0	0.1	0.4	13.1	5.5	0.1	0.9	44.5	(s)	64.5	^{R e} 1.2	0.0	^e 64.7	0.0	^e 64.7
1990	0.0	0.1	0.5	14.2	5.9	0.1	1.0	44.2	(s)	65.9	1.4	0.0	66.0	0.0	66.0
1991	0.0	0.3	0.3	14.5	2.0	(s)	0.9	45.1	0.0	62.8	1.1	0.0	63.2	0.0	63.2
1992	0.0	1.8	0.3	15.6	6.9	0.1	0.9	46.6	0.0	70.3	1.4	0.0	72.0	0.0	72.0
1993	0.0	2.6	0.3	16.5	6.4	0.1	0.9	47.4	0.0	71.5	1.5	0.0	74.1	0.0	74.1
1994	0.0	2.6	0.2	19.3	7.1	0.1	0.9	49.2	0.0	76.9	1.7	0.0	79.5	0.0	79.5
1995	0.0	2.8	0.2	19.6	7.9	0.1	0.9	49.7	0.0	78.5	1.6	0.0	81.2	0.0	81.2
1996	0.0	2.9	0.3	20.2	5.7	(s)	0.9	50.4	0.0	77.5	1.1	0.0	80.4	0.0	80.4
1997	0.0	3.0	0.2	20.1	4.0	(s)	0.9	50.4	0.0	75.6	1.3	0.0	78.6	0.0	78.6

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

^c Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector and is included only once in the total.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

- =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 268. Estimates of Energy Input at Electric Utilities, Selected Years 1960-1997, South Dakota

Year	Coal			Natural Gas ^a	Petroleum				Nuclear Electric Power	Hydroelectric Power ^e	Wood and Waste	Geothermal Energy	Other ^{b,f}	Total ^g
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil ^{b,c}	Light Oil ^{b,d}	Petroleum Coke ^b	Total						
	Thousand Short Tons				Billion Cubic Feet	Thousand Barrels								
1960	246	0	246	4	40	7	0	47	0	1,136	0	0	0	-
1965	237	0	237	3	47	8	0	55	0	3,835	0	0	0	-
1970	301	0	301	4	270	48	0	318	0	6,544	0	0	0	-
1975	1,804	0	1,804	3	145	67	0	212	0	7,890	0	0	0	-
1980	2,683	0	2,683	(s)	9	58	0	67	0	5,786	0	0	0	-
1985	2,407	0	2,407	(s)	1	39	0	40	0	5,301	0	0	0	-
1986	2,018	0	2,018	(s)	1	38	0	39	0	5,704	0	0	0	-
1987	865	0	865	(s)	1	21	0	23	0	5,354	0	0	0	-
1988	2,388	0	2,388	(s)	10	48	0	58	0	5,254	0	0	0	-
1989	2,281	0	2,281	(s)	0	33	0	33	0	4,583	0	0	0	-
1990	2,345	0	2,345	(s)	0	32	0	32	0	3,934	0	0	0	-
1991	2,570	0	2,570	(s)	0	35	0	35	0	3,936	0	0	0	-
1992	2,402	0	2,402	(s)	0	19	0	19	0	3,833	0	0	0	-
1993	2,360	0	2,360	(s)	0	32	0	32	0	2,591	0	0	0	-
1994	2,570	0	2,570	(s)	0	50	0	50	0	5,343	0	0	0	-
1995	2,137	0	2,137	1	0	48	0	48	0	6,010	0	0	0	-
1996	1,453	0	1,453	1	0	33	0	33	0	7,978	0	0	0	-
1997	2,005	0	2,005	2	0	23	0	23	0	9,012	0	0	0	-

Trillion Btu

1960	4.2	0.0	4.2	4.6	0.3	(s)	0.0	0.3	0.0	12.2	0.0	0.0	0.0	21.4
1965	4.2	0.0	4.2	3.3	0.3	(s)	0.0	0.3	0.0	40.1	0.0	0.0	0.0	48.0
1970	5.0	0.0	5.0	4.4	1.7	0.3	0.0	2.0	0.0	68.7	0.0	0.0	0.0	80.0
1975	22.8	0.0	22.8	3.2	0.9	0.4	0.0	1.3	0.0	82.1	0.0	0.0	0.0	109.4
1980	33.8	0.0	33.8	0.3	0.1	0.3	0.0	0.4	0.0	60.1	0.0	0.0	0.0	94.6
1985	29.4	0.0	29.4	(s)	(s)	0.2	0.0	0.2	0.0	55.4	0.0	0.0	0.0	85.0
1986	24.6	0.0	24.6	(s)	(s)	0.2	0.0	0.2	0.0	59.6	0.0	0.0	0.0	84.4
1987	10.5	0.0	10.5	0.1	(s)	0.1	0.0	0.1	0.0	55.8	0.0	0.0	0.0	66.5
1988	30.3	0.0	30.3	0.2	0.1	0.3	0.0	0.3	0.0	54.2	0.0	0.0	0.0	85.1
1989	28.0	0.0	28.0	0.1	0.0	0.2	0.0	0.2	0.0	47.8	0.0	0.0	0.0	76.1
1990	28.6	0.0	28.6	0.2	0.0	0.2	0.0	0.2	0.0	40.9	0.0	0.0	0.0	69.9
1991	31.0	0.0	31.0	0.2	0.0	0.2	0.0	0.2	0.0	^R 41.1	0.0	0.0	0.0	72.7
1992	29.0	0.0	29.0	(s)	0.0	0.1	0.0	0.1	0.0	39.6	0.0	0.0	0.0	69.5
1993	28.6	0.0	28.6	0.2	0.0	0.2	0.0	0.2	0.0	26.7	0.0	0.0	0.0	55.7
1994	31.1	0.0	31.1	0.2	0.0	0.3	0.0	0.3	0.0	55.1	0.0	0.0	0.0	88.1
1995	29.8	0.0	29.8	0.9	0.0	0.3	0.0	0.3	0.0	^R 62.0	0.0	0.0	0.0	^R 93.0
1996	26.3	0.0	26.3	0.7	0.0	0.2	0.0	0.2	0.0	^R 82.4	0.0	0.0	0.0	109.6
1997	34.8	0.0	34.8	1.8	0.0	0.1	0.0	0.1	0.0	92.9	0.0	0.0	0.0	129.7

^a Includes supplemental gaseous fuels.

^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^c Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.

^d Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.

^e If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

^f "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.

^g If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. See data in appendix Table A8.

^R=Revised data.

- =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.